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The structure and function of gamma c-dependent cytokines and receptors: regulation of T lymphocyte development and homeostasis.

YW He, TR Malek - Critical reviews in immunology, 1998 - nichijm.nih.gov

1: Crit Rev Immunol. 1998;18(6):503-24. The structure and function of gamma c-dependent cytokines and receptors ... Five cytokines, IL-2, IL-4, IL-7, IL-9, and IL-15, form one group that is characterized by utilizing the common gamma chain (gamma c) as a receptor subunit. ...

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Jak3-independent trafficking of the common (gamma) chain receptor subunit: chaperone function of Jak3 revisited

SP Hoffmann, AG Lam, S Frank, YJ Zhou, ... - ... and cellular biology, 2004 - Am Soc Microbiol ... with c in living cells appears to be a very sensitive indicator of proper Jak structure. ... regulation of c and Jak3 will be important given the critical in vivo functions of both ... The amino terminus of JAK3 is necessary and sufficient for binding to the common gamma chain and confers ...

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... IL-13 bind to a shared heterodimeric complex on endothelial cells mediating vascular cell adhesion molecule-1 induction in the absence of the common gamma chain

B Schmid, S Lujil, N Feng, H Elter, RA ... - ... 58(6) - bloodjournal.hematologylibrary.org ... Therefore, the subunit structure of the functional receptors for IL-4 and IL-13 on human endothelial cells does not use or require the common yο of the IL ... with the 130-kD IL4R and enhances its affinity with the ligand.13,16,17 IL-4 and IL-13 have remarkably similar functions on diff ...

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Blocking the common (gamma)-chain of cytokine receptors induces T cell apoptosis and long-term islet allograft survival

XC Li, A Imai, Y Li, XX Zheng, TR Malek, ... - ... The Journal of ... 2000 - Am Assoc Immunol ... complex can bind IL-2 but cannot initiate signaling events, and, therefore, this structure is often ... Expression and function of the subunit of the IL-2, IL-4, and IL-7 ... Strom, and XC Li Islet Allograft Rejection in Nonobese Diabetic Mice Involves the Common (gamma)-Chain and CD28 ...

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The common (gamma)-chain for multiple cytokine receptors

K Sugamura, H Asao, M Kondo, NT Tanaka, N ... - Advances in ... 1993 - Elsevier ... Structure and Function of IL-2 Receptor Subunits 227 111. Sharing of IL-2Rγ among Multiple Cytokine Receptors 238 IV. Causative Relationship between IL-2R Mutations and Human XSCID 246 V. Signal Transduction Initiated by the Receptors Sharing the γ-Chain 253 VI. ...

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Molecular cloning of a novel type 1 cytokine receptor similar to the common gamma chain

K Fujio, T Notsuka, T Kojima, T ... - ... 300(1) - bloodjournal.hematologylibrary.org ... Molecular cloning of a novel type 1 cytokine receptor similar to the common gamma chain. ... View larger version (3622K) [in this window] [in a new window], Fig 4. Structure of chimeric ... We next examined the function of the cytoplasmic domain of 1; chimeric receptors between 1 ...

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Structure, function, and targeting of interleukin 4 receptors on human head and neck cancer cells

K Kawashima, P Leland, RK Pun - Cancer research, 2000 - AACR

... Experimental Therapeutics: Structure, Function, and Targeting of Interleukin 4 Receptors on Human Head and Neck Cancer Cells. ... However, IL-4R structure, function, and cytotoxic activity of IL-4 toxin in SCCHN have not been investigated. ...

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Structure of the Quaternary Complex of Interleukin-2 with Its (alpha),(beta), and (gamma) c Receptors

X Wang, M Rickert, KC Gorski - Science's STKE, 2005 - elife.sciencedirect.com ... that acts through a quaternary receptor signaling complex containing alpha (IL-2R α), beta (IL-2R β), and common gamma chain (g c ... IL-4, IL-7, IL-9, IL-15, and IL-21, c forms degenerate contacts with IL-2. The structure of c provides a rationale for loss-of-function mutations found ...

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Stable and functional lymphoid reconstitution of common cytokine receptor gamma chain deficient mice by retroviral-mediated gene transfer

C Stoudamire, T Shih, L Sharma, D Guy, ... - ... 2000 - bloodjournal.hematologylibrary.org ... Phenotype and function of peripheral lymphocytes from c-transduced mice. ... B-cell responses in c-transduced animals. To assess B-cell function in c-transduced mice, we first analyzed steady-state circulating plasma immunoglobulin levels in animals >8 weeks posttransplant. ...

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The interleukin-4 receptor activates STAT5 by a mechanism that relies upon common gamma-chain

A Laschke, P Monigg, S Brandstätter, S Berchtold, ... - Journal of Biological ... 1998 - ASBMB ... substrate), phosphatidylinositol 3-kinase, STAT6, and probably other proteins generate a network

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of protein-protein contacts mediated by interactions between phosphotyrosines and Src homology 2 domains (9). Despite structure-function studies by several laboratories (10-16 ...)

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